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1 Categorization and supervised machine learning: Title extraction from bodies of HTML documents and its application to web page retrieval

Yunhua Hu, Guomao Xin, Ruihua Song, Guoping Hu, Shuming Shi, Yunbo Cao, Hang Li

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Full text available: pdf(347.22 KB) Additional Information: full citation, abstract, references, index terms

This paper is concerned with automatic extraction of titles from the bodies of HTML documents. Titles of HTML documents should be correctly defined in the title fields; however, in reality HTML titles are often bogus. It is desirable to conduct automatic extraction of titles from the bodies of HTML documents. This is an issue which does not seem to have been investigated previously. In this paper, we take a supervised machine learning approach to address the problem. We propose a specification o ...

Keywords: HTML document, information retrieval, metadata extraction

2 Categorization and classification: An application of text categorization methods to gene ontology annotation

Kazuhiro Seki, Javed Mostafa

August 2005 **Proceedings of the 28th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '05**

Full text available: pdf(249.13 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an application of IR and text categorization methods to a highly practical problem in biomedicine, specifically, Gene Ontology (GO) annotation. GO annotation is a major activity in most model organism database projects and annotates gene functions using a controlled vocabulary. As a first step toward automatic GO annotation, we aim to assign GO domain codes given a specific gene and an article in which the gene appears, which is one of the task challenges at the TREC 2004 Ge ...

Keywords: automatic database curation, genomic IR, text categorization

3 Digital libraries and cyberinfastructure track: use of digital libraries in education: Comprehensive personalized information access in an educational digital library

Peter Brusilovsky, Rosta Farzan, Jae-wook Ahn

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(699.85 KB) Additional Information: full citation, abstract, references, index terms

This paper explores two ways to help students locate most relevant resources in educational digital libraries. One method gives a more comprehensive access to educational resources, through multiple pathways of information access, including browsing and information visualization. The second method is to access personalized information through social navigation support. This paper presents the details of the Knowledge Sea II system for comprehensive personalized access to educational resources an ...

Keywords: classroom study, information map, social navigation

4 Tools & techniques track: supporting classification: Automatic extraction of titles from general documents using machine learning

Yunhua Hu, Hang Li, Yunbo Cao, Dmitriy Meyerzon, Qinghua Zheng

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(371.18 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a machine learning approach to title extraction from general documents. By general documents, we mean documents that can belong to any one of a number of specific genres, including presentations, book chapters, technical papers, brochures, reports, and letters. Previously, methods have been proposed mainly for title extraction from research papers. It has not been clear whether it could be possible to conduct automatic title extraction from general documents. As a case ...

Keywords: information extraction, machine learning, metadata extraction, search

5 Digital libraries and cyberinfastructure track: use of digital libraries in the humanities: Annotating illuminated manuscripts: an effective tool for research and education

Maristella Agosti, Nicola Ferro, Nicola Orio

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

The aim of this paper is to report the research results of an ongoing project that deals with the exploitation of a digital archive of drawings and illustrations of historic documents for research and educational purposes. According to the results on a study of user requirements, we have designed tools to provide researchers with innovative ways for accessing the digital manuscripts, sharing, and transferring knowledge in a collaborative environment. We have found that the results of scientific ...

Keywords: annotation, digital images, education environment, user requirements

6 Access control for XML document: Generalized XML security views

Gabriel Kuper, Fabio Massacci, Nataliya Rassadko

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

Full text available: pdf(168.30 KB) Additional Information: full citation, abstract, references, index terms

We investigate a generalization of the notion of XML security view introduced by Stoica and Farkas [17] and later refined by Fan et al. [8]. The model consists of access control policies specified over DTDs with XPath expression for data-dependent access control policies. We provide the notion of *security views* for characterizing information accessible to authorized users. This is a transformed (sanitized) DTD schema that can be used by users for query formulation and optimization. Then w ...

Keywords: XML access control, XML views, XPath

7 Engineering design: Platform-independent accessibility API: accessible document object model

Andres Gonzalez, Loretta Guarino Reid

May 2005 **Proceedings of the 2005 International Cross-Disciplinary Workshop on Web Accessibility (W4A) W4A '05**

Full text available: pdf(167.73 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the problem of supporting accessibility in applications that run in multiple operating environments. It analyzes the commonalities of existing platform-specific Accessibility APIs, and defines a platform-independent accessibility API, the Accessible DOM.The Accessible DOM encompasses the features of existing APIs and overcomes the limitations of existing APIs to express dynamic, complex document contents.The Accessible DOM can be used to support existing and future platform- ...

Keywords: W3C DOM, accessibility API

8 Schemas and semantics: WEESA: Web engineering for semantic Web applications

Gerald Reif, Harald Gall, Mehdi Jazayeri

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(203.78 KB) Additional Information: full citation, abstract, references, index terms

The success of the Semantic Web crucially depends on the existence of Web pages that provide machine-understandable meta-data. This meta-data is typically added in the semantic annotation process which is currently not part of the Web engineering process. Web engineering, however, proposes methodologies to design, implement and maintain Web applications but lack the generation of meta-data. In this paper we introduce a technique to extend existing Web engineering methodologies to develop semanti ...

Keywords: Web engineering, ontology, semantic Web, semantic annotation

9 Web engineering with semantic annotation: Improving portlet interoperability through deep annotation

Oscar Díaz, Jon Iturrioz, Arantza Irastorza

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(476.49 KB) Additional Information: full citation, abstract, references, index terms

Portlets (i.e. multi-step, user-facing applications to be syndicated within a portal) are currently supported by most portal frameworks. However, there is not yet a definitive answer to portlet interoperation whereby data flows smoothly from one portlet to a neighbouring one. Both data-based and API-based approaches exhibit some drawbacks in either the limitation of the sharing scope or the standardization effort required. We argue that these limitations can be overcome by using deep annotation ...

Keywords: data-flow, deep-annotation, event, portal ontology, portlet interoperability

10 Text analysis and extraction: Gimme' the context: context-driven automatic semantic annotation with C-PANKOW

Philipp Cimiano, Günter Ladwig, Steffen Staab

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(295.06 KB) Additional Information: full citation, abstract, references, index terms

Without the proliferation of formal semantic annotations, the Semantic Web is certainly doomed to failure. In earlier work we presented a new paradigm to avoid this: the 'Self Annotating Web', in which globally available knowledge is used to annotate resources such as web pages. In particular, we presented a concrete method instantiating this paradigm, called PANKOW (Pattern-based ANnotation through Knowledge On the Web). In PANKOW, a named entity to be annotated is put into several linguistic p ...

Keywords: annotation, information extraction, metadata, semantic Web

11 Applications: Web-assisted annotation, semantic indexing and search of television and radio news

Mike Dowman, Valentin Tablan, Hamish Cunningham, Borislav Popov

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(403.97 KB) Additional Information: full citation, abstract, references, index terms

The Rich News system, that can automatically annotate radio and television news with the aid of resources retrieved from the World Wide Web, is described. Automatic speech recognition gives a temporally precise but conceptually inaccurate annotation model. Information extraction from related web news sites gives the opposite: conceptual accuracy but no temporal data. Our approach combines the two for temporally accurate conceptual semantic annotation of broadcast news. First low quality transcri ...

Keywords: Web search, automatic speech recognition, key-phrase extraction, media archiving, multimedia, natural language processing, semantic Web, semantic annotation, topical segmentation

12 Late breaking results: posters: Annotating 3D electronic books

Lichan Hong, Ed H. Chi, Stuart K. Card

April 2005 **CHI '05 extended abstracts on Human factors in computing systems**

Full text available: pdf(658.17 KB) Additional Information: full citation, abstract, references, index terms

The importance of annotations, as a by-product of the reading activity, cannot be overstated. Annotations help users in the process of analyzing, re-reading, and recalling detailed facts such as prior analyses and relations to other works. As elec-tronic reading become pervasive, digital annotations will become part of the essential records of the reading activity. But creating and rendering annotations on a 3D book and other objects in a 3D workspace is non-trivial. In this paper, we present ou ...

Keywords: 3D book, annotation, digital library, user interface

13 Information access and retrieval (IAR): Retrieving lightly annotated images using image similarities

Masashi Inoue, Naonori Ueda

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Full text available: pdf(207.74 KB) Additional Information: full citation, abstract, references, index terms

Users' search needs are often represented by words and images are retrieved according to such textual queries. Annotation words assigned to the stored images are most useful to connect queries to the images. However, due to annotation cost, quite limited amount of annotation words are available in many cases. When annotations are not given at all, there needs to be some techniques that assign annotations automatically. When only a few annotation words are given to each image (lightly annotated), ...

Keywords: annotation-based retrieval, image retrieval, lightly annotated images, word associations

14 Web technologies and applications (WTA): Survey of semantic annotation platforms
Lawrence Reeve, Hyoil Han
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**
Full text available: pdf(74.31 KB) Additional Information: full citation, abstract, references, index terms

The realization of the Semantic Web requires the widespread availability of semantic annotations for existing and new documents on the Web. Semantic annotations are to tag ontology class instance data and map it into ontology classes. The fully automatic creation of semantic annotations is an unsolved problem. Instead, current systems focus on the semi-automatic creation of annotations. The Semantic Web also requires facilities for the storage of annotations and ontologies, user interfaces, acce ...

Keywords: information extraction, semantic annotation, semantic web

15 Long papers: knowledge acquisition and knowledge-based design: ClaimSpotter: an environment to support sensemaking with knowledge triples
Bertrand Sereno, Simon Buckingham Shum, Enrico Motta
January 2005 **Proceedings of the 10th international conference on Intelligent user interfaces**
Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, index terms

Annotating a document with an interpretation of its contents raises a number of challenges that we are hoping to address via the creation of a supporting environment. We present these challenges and motivate an approach based on the notion of suggestions to support document annotation, hoping these suggestions would act as leads to follow for annotators, therefore reducing some of the difficulties inherent to the task. The environment resulting from this approach, ClaimSpotter, is presented. Asp ...

Keywords: annotation, interface, sensemaking, user studies

16 KM-4 (knowledge management): distributed knowledge management: Towards smarter documents
Vikas Krishna, Prasad M. Deshpande, Savitha Srinivasan
November 2004 **Proceedings of the thirteenth ACM conference on Information and knowledge management**
Full text available: pdf(224.70 KB) Additional Information: full citation, abstract, references, index terms

Document analysis research typically focuses on document image understanding or classic problems in text classification, clustering, summarization and discovery. While that is an important aspect of document management, in practice, documents lifecycles are often determined by the context of the business process that they are relevant to. It therefore becomes necessary for the document analysis techniques to recognize and leverage the contextual information provided by a supporting schema and ...

Keywords: classification, content, processes, workflow

17 XML processing: A comprehensive solution to the XML-to-relational mapping problem
Sihem Amer-Yahia, Fang Du, Juliana Freire

November 2004 **Proceedings of the 6th annual ACM international workshop on Web information and data management**

Full text available: pdf(114.33 KB) Additional Information: full citation, abstract, references, index terms

The use of relational database management systems (RDBMSs) to store and query XML data has attracted considerable interest with a view to leveraging their powerful and reliable data management services. Due to the mismatch between the relational and XML data models, it is necessary to first shred and load the XML data into relational tables, and then btranslate XML queries over the original data into equivalent SQL queries over the mapped tables. Although there is a rich literature on XML-rel ...

Keywords: XML shredding, XML storage, mapping techniques, relational databases

18 Information sharing and access: Asynchronous collaborative writing through annotations

Chunhua Weng, John H. Gennari

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available: pdf(260.11 KB) Additional Information: full citation, abstract, references, index terms

Annotation is central to iterative reviewing and revising activities in asynchronous collaborative writing. Currently most digital annotation models and systems assume static context information and provide far less functionality than physical annotations. We extend prior annotation research by Marshall and Cadiz and design an activity-oriented annotation model to mimic the rich functionality of physical annotations for an enhanced collaborative writing process. In this model, we define an an ...

Keywords: annotation, asynchronous collaboration, collaborative writing

19 Document management: Accommodating paper in document databases

Majed AbuSafiya, Subhasish Mazumdar

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(234.77 KB) Additional Information: full citation, abstract, references, index terms

Although the paperless office has been imminent for decades, documents in paper form continue to be used extensively in almost all organizations. Present-day information systems are designed on the premise that any paper document in use will be either converted into electronic form or merely printed from electronic file(s) accessible to the system. Yet, paper is the medium of choice in many situations, mainly owing to its portability and usability, and the medium of necessity in others, espec ...

Keywords: RFID, document databases, document management, enterprise document model, paper documents, paper manifestation

20 Document management: The lifecycle of a digital historical document: structure and content

A. Antonacopoulos, D. Karatzas, H. Krawczyk, B. Wiszniewski

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available: pdf(313.24 KB) Additional Information: full citation, abstract, references, index terms

This paper describes the lifecycle of a digital historical document, from template-based structure definition through to content extraction from the scanned pages and its final reconstitution as an electronic document (combining content and semantic information) along with the tools that have been created to realise each stage in the lifecycle. The whole

approach is described in the context of different types of typewritten documents relating to prisoners in World-War II concentration camps a ...

Keywords: digital libraries, document analysis, document architecture, document engineering, historical documents, text enhancement

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